PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Patent Application of

: Group Art Unit: To Be Assigned

Thomas Maciag et al.

•

Appln. No.:

To Be Assigned

: Examiner: To Be Assigned

Filed:

Herewith

Title:

THERAPEUTIC AND DIAGNOSTIC

: Attorney Docket No.

METHODS AND COMPOSITIONS

: 053689-5002-03

BASED ON JAGGED/NOTCH PROTEINS:

AND NUCLEIC ACIDS

INFORMATION DISCLOSURE STATEMENT

It is requested that the reference(s) listed on the attached Information Disclosure Citation Form PTO-1449 be considered by the Patent Examiner in connection with the above-identified application and be made of record therein.

Copies of the references were previously cited by and/or submitted to the U.S. Patent and Trademark Office in related Application No. <u>09/199,865</u> filed on <u>November 25, 1998</u> (the "prior application"). The present application relies, under 35 U.S.C. § 120, on the filing date of the prior application. Therefore, under 37 C.F.R. § 1.98(d), copies of the references are not enclosed.

Independent consideration and acknowledgment of the listed reference(s) are respectfully requested.

Respectfully submitted,

THOMAS MACIAG ET AL.

august 28,2003

By:

RAQUEL M. ALVAREZ, PH.D., J.D.

Registration No. 45,807

MORGAN, LEWIS & BOCKIUS, L.L.P.

1701 Market Street

Philadelphia, PA 19103-2921 Telephone: 215-963-5000

Direct Dial: 215-963-5403 Facsimile: 215-963-5001

E-Mail: ralvarez@morganlewis.com

RMA/QDN/prw Jel

					" ,"		
Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 8-83)PATENT AND TRADEMARK OFFICE			ATTORNEY DOCKET NO.: 053689-5002-03			ATION NO.: Assigned	
INFO	RMAT]	ION DISCLOSURE CITAT	TON	APPLICANT: Thomas Maciag et al.			
(Form PTO-1449 Modified 5/95) (Use several sheets if necessary)				FILING DATE: Herewith		GROUP ART UNIT: To Be Assigned	
IÚS A	PANTEN	TDOCUMENTS					
EX. INIT	DOCU MENT	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		4,663,278	May 1987	DiNello .			
							
						<u> </u>	1
osity290							
FOR	EIGN P	ATENT DOCUMENTS		lander de la companya		I	
EX. INIT	DOCU MENT	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
		125,023	November 1984	Europe			
		173,494	May 1986	Europe			
		184,187	November 1986	Europe			
		WO 86/01533	March 1986	PCT			
						*	
OT L	ER DO	 CUMENTS (Including Aut	l hor Title Date P	ertinent Pages: Etc?)	1		
2-60-		Artavanis-Tsakonas et al	., 1995, Science	268:225-232	an appear		
		Artavanis-Tsakonas and	Simpson, 1991,	Frends Genet. 7:403-408	1		
EXA	MINER			DATE CONSIDERED			
*EXA	MINER: I	nitial if citation considered, whether or ude copy of this form with next comm	r not citation is in confo unication to applicant.	rmance with MPEP 609; Draw line the	ough citation i	f not in con	formance and not

U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKET NO.: APPLICATION NO. Form PTO-1449 (Modified) PATENT AND TRADEMARK OFFICE To Be Assigned (REV. 8-83) 053689-5002-03 APPLICANT: Thomas Maciag et al. INFORMATION DISCLOSURE CITATION **GROUP ART UNIT:** FILING DATE: (Form PTO-1449 Modified 5/95) (Use several sheets if necessary) Herewith To Be Assigned

Ose several sheets if her		Herewith	To Be Assigned
ONTEGRALIO ELUIV	ENTS (Including Author, Litle, Date, Pen	inent Pages, (Etc.)	
	Baker et al., 1990, Science 250:1370-13		
	Benoist et al., 1981, Nature 290:304-31	0	·····
	Better et al., 1988, Science 240:1041-10)43	
	Bierkamp and Campos-Ortega, 1993, M	fech. Dev. 43:87-100	
	Blank et al., 1992, TIBS 17:135-140		
	Bollon et al., 1980, J. Clin. Hematol. O	ncol. 10:39-48	
	Bork, 1993, Proteins 17:363-374		
	Botstein et al., 1982, Miami Wntr. Sym	p. 19:265-274	
*	Burgess and Maciag, 1989, Annu. Rev.	Biochem. 58:575-606	
	Carson and Haudenschild, 1986, In Vita	ro 22:344-354	<u> </u>
·	Cenatiempo, 1986, Biochimie 68:505-5	16	
	Chan et al., 1979, Microvasc. Res. 18:3	53-369.	
	Chobanian et al., 1986, Hypertension 8	:15-21	
	Coffman et al., 1990, Science 249:1438	3-1441	
	Franco del Amo et al., 1992, Developm	ent 115:737-744	
	Ellisen et al., 1991, Cell 66:649-661		
	Ding et al., 1992, J. Biol. Chem. 267:12	2804-12812	
	Engval et al., 1972, Immunol. 109:129		
	Folkman and Klagsburn, 1987, Science	235:442-447	
	Folkman et al., 1983, Science 221:719-	725	
	Forough et al., 1993, J. Biol. Chem. 26	8:2960-2968	
	Fortini and Artavanis-Tsakonas, 1993,	Cell 75:1245-1247	•
EVAMINED	<u> </u>	DATE CONCIDEDED	

EXAMINER

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified) (REV. 8-83) PAT

fied) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.:∴ 053689-5002-03

APPLICATION NO.
To Be Assigned

APPLICANT:

Thomas Maciag et al.

INFORMATION DISCLOSURE CITATION

(Form PTO-1449 Modified 5/95) (Use several sheets if necessary)

FILING DATE: Herewith

GROUP ART UNIT:To Be Assigned

onesinitadoción	IENTS (Including Author, Utile, Dates Pertinent Bages, Etc.)
	Friesel et al., 1987, J. Cell Biol. 104:689-696
	Friesel et al., 1995, FASEB J. 9:919-925
	Garfinkel et al., 1994, Proc. Natl. Acad. Sci. USA 91:1559-1563
	Garfinkel et al., 1996, J. Cell Biol. 134:783-791
	Garfinkel et al., 1992, J. Biol. Chem. 267:24375-24378
	Gilman et al., 1984, Gene Sequence 32:11-20
	Glick, 1987, J. Ind. Microbiol. 1:277-282
	Gottesman, 1984, Ann. Rev. Genet. 18:415-442
	Gold et al., 1981, Ann. Rev. Microbiol. 35:365-404
	Greenwald and Rubin, 1992, Cell 68:271-281
	Gumkowski et al., 1987, Blood Vessels 24:11
	Gurdon, 1992, Cell 68:185-199
	Hamer et al., 1982, J. Mol. Appl. Gen. 1:273-288
	Haudenschild et al., 1981, Hypertension 3:148-153
	Henderson et al., 1994, Development 120:2913-2924
	Hla and Maciag, 1990, Biochem. Biophys. Res. Commun. 167:637-643
	Hla and Maciag, 1990, J. Biol. Chem. 265:9308-9313
	Hla et al., 1995, Biochim. Biophys. Acta 1260:227-229
	Hla and Neilson, 1992, Proc. Natl. Acad. Sci. USA 89:7384-7388
·	Hodgson, 1990, Biotechnology 8:1245-1247
	Hodgson, 1991, Biotechnology 9:609-613
EVAMINED	

EXAMINER

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE (REV. 8-83) PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO.: 053689-5002-03

APPLICATION NO.
To Be Assigned

INFORMATION DISCLOSURE CITATION

(Form PTO-1449 Modified 5/95) (Use several sheets if necessary) APPLICANT: Thomas Maciag et al.

FILING DATE: Herewith GROUP ART UNIT:
To Be Assigned

OHARRIDOCU	MENIES (Including Author, Fitle, Date, Pertinent Pages, Etc.) Imamura et al., 1990, Science 249:1567-1570
	ingoor did i ondindi, 1909, or con Exon 109.517 555
	Izaki, 1978, Jpn. J. Bacteriol. 33:729-742
	Jarriault et al., 1995, Nature 377:355-358
	Jasny, 1987, Science 238:1653
	Jaye et al., 1985, Science 228:882-885
	Jennings et al., 1994, Development 120:3537-3548
	John et al., 1986, Rev. Infect. Dis. 8:693-704
	Johnston et al., 1982, Proc. Natl. Acad. Sci. USA 79:6971-6975
	Kaspczak et. al., 1989, Biochemistry 28:9230-9238
	Kendall et al., 1987, J. Bacteriol. 169:4177-4183
	Kopan et al., 1996, Proc. Natl. Acad. Sci. USA 93:1683-1688
	Kopczynski et al., 1988, Genes Dev. 2:1723-1735
	Lardelli and Lendahi, 1993, Mech. Dev. 46:123-136
	Lardelli et al., 1994, Exp. Cell Res. 204:364-372
	Lindsell et al., 1995, Cell 80:909-917
	Liu et. al., 1987, Proc. Natl. Acad. Sci. USA 84:3439-3443
	Liu et. al., 1987, J. Immunol. 139:3521-3526
	Lutz et. al., 1988, Exp. Cell Res. 175:109-124
	Maier et al., 1990, J. Biol. Chem. 265:10805-10808
	Maier et al., 1990, Science 249:1570-1574
	Maciag et al., 1981, J. Cell Biol. 91:420-426
EXAMINER	DATE CONSIDERED

EXAMINER

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPLICATION NO. U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKET NO.: Form PTO-1449 (Modified) To Be Assigned PATENT AND TRADEMARK OFFICE 053689-5002-03 (REV. 8-83) APPLICANT: Thomas Maciag et al. INFORMATION DISCLOSURE CITATION **GROUP ART UNIT:** FILING DATE: (Form PTO-1449 Modified 5/95) (Use several sheets if necessary) Fro Be Assigned Herewith: OF THE PROCESSION OF THE DATE PER TOTAL PROCESSION (Including Author, Title Date Pertinent Pages, Etc.) THE DE LOS Maciag et al., 1979, Proc. Natl. Acad. Sci. USA 76:5674-5678 Maciag et al., 1982, J. Cell Biol. 94:511-520 Maciag, 1984, In: Progress in Hemostasis and Thrombosis, pp. 167-182 Martin-Zanca et al., 1989, Mol. Cell. Biol. 9:24-33 Mello et al., 1994, Cell 77:95-106 Melton, 1985, Proc. Natl. Acad. Sci. USA 82:144-148 Muskavitch and Hoffmann, 1990, Curr. Top. Dev. Biol. 24:289-328 Nishimura et. al., 1987, Canc. Res. 47:999-1005 Nye et al., 1994, Development 120:2421-2430 Nye and Kopan, 1995, Curr. Biol. 5:966-969 Okayama, 1983, Molec. Cell. Biol. 3:280-291 Olander et al., 1985, J. Cell. Physiol. 125:1-9 Pepper et al., 1992, Biochem. Biophys. Res. Comm. 189:824-831 Preiss et al., 1985, Nature 313:27-32 Prudovsky et al., 1994, J. Biol. Chem. 269:31720-31724 Oi et al., 1999, Science 283:91 Rosenberg et al., 1985, Nature 313:703-706 Rosengart et al., 1989, Circ. Res. 64:227-234 Rubin, 1988, Science 240:1453-1459 Sasai et al., 1992, Genes Dev. 6:2620-2634 Sato and Rifkin, 1988, J. Cell Biol. 107:1199-1205 DATE CONSIDERED **EXAMINER**

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE (REV. 8-83) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

ATTORNEY DOCKET NO.: 053689-5002-03

APPLICATION NO. To Be Assigned

APPLICANT:

Thomas Maciag et al.

(Form PTO-1449 Modified 5/95) (Use several sheets if necessary)

FILING DATE:
Herewith

GROUP ART UNIT:
To Be Assigned

(O)HHITHRAD(O)CIU	MENTS (including Author, Title Date Redinent Pages Die)) (MF)
	Scanlon et al., 1995, FASEB J. 9:1288-1296
	Schreiber et al., 1985, Proc. Natl. Acad. Sci. USA 82:6138-6142
	Schwartz et al., 1981, Atherosclerosis 1:107-161
	Schwartz et al., 1978, Lab. Invest. 38:568-580
	Schweisguth et al., 1992, Cell 69:1199-1212
	Shaw et al., 1988, J. Natl.Cancer Inst. 80:1553-1559
	Silver et al., 1984, Proc. Natl. Acad. Sci. USA 81:5951-5955
	St. Groth et. al., 1980, J. Immunol. Methods 35:1-21
	Sternberger et al., 1970, J. Histochem. Cytochem. 18:315-333
·	Sun et. al., 1987, Proc. Natl. Acad. Sci. USA 84:214-218
	Tax et al., 1994, Nature 368:150-154
	Terranova et al., 1985, J. Cell Biol. 101:2330-2334
	Thomas et al., 1991, Development 111:749-761
	Ulmanen et al., 1985, J. Bacteriol. 162:176-182
	Ward et al., 1986, Mol. Gen. Genet. 203:468-478
	Weinmaster et al., 1991, Development 113:199-205;
	Wood et. al., 1985, Nature 314:446-449
	Xue et al., 1999, Hum. Mol. Genet. 8:723-730
	Zhan et al., 1992, Biochem. Biophys. Res. Commun. 188:982-991
	Zhan et al., 1994, J. Biol. Chem. 269:20221-20224
	Zimrin, et al., 1996, J. Biol. Chem. 271:32499-32505
	Zimrin et al., 1996, J. Clin. Invest. 97:1359
	Miller et al., 1986, In: Genetic Engineering, vol. 8, pp. 277-297, Setlow et al., eds., Plenum Press
DV A MAINIED	DATE CONCIDEDED

EXAMINER

^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.